

## WEST Search History

DATE: Sunday, June 15, 2003

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
L14	L13 same conjugated	31	L14
L13	L12 same amine	3973	L13
L12	sulfonated	26388	L12
L11	L9 and (amine same absorb\$)	53	L11
L10	L9 and amine.ti.	52	L10
L9	L2 same (amine)	665	L9
L8	L7 and ammonia.ti.	95	L8
L7	L2 same (ammonia)	1411	L7
L6	L2 same (heavy metal)	95	L6
L5	L3 same (heavy metal)	95	L5
L4	L3 and ((134/\$)!.CCLS.)	21	L4
L3	L2 same (ammonia or (heavy metal) or amine)	1881	L3
L2	polyelectrolyte	9685	L2
L1	polyelectrlyte	7	L1

END OF SEARCH HISTORY

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<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
L15	L2 and waste and melting and pellet\$	26	L15
L14	L13 same conjugated	31	L14
L13	L12 same amine	3973	L13
L12	sulfonated	26388	L12
L11	L9 and (amine same absorb\$)	53	L11
L10	L9 and amine.ti.	52	L10
L9	L2 same (amine)	665	L9
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L2	polyelectrolyte	9685	L2
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END OF SEARCH HISTORY

(C) WPI / DERWENT

AN - 1986-025538 [04]  
AP - JP19840103472 19840522; DE19853587280 19850905; EP19850111242 19850905;  
[Based on EP-174027 ]  
PR - JP19840103472 19840522; JP19840186707 19840906; JP19850103472 19850514  
TI - Treatment of waste water purificn. sludge - involves adding metal  
salt, hydrazide acrylate] polymer and polymer cpds. contg. amino gps.  
IW - TREAT WASTE WATER PURIFICATION SLUDGE ADD METAL SALT HYDRAZIDE  
POLYACRYLATE POLYMER POLYMER COMPOUND CONTAIN AMINO GROUP  
IN - IMOTO T; MUKAI Y; NAKATANI K; NAKAZAWA A; SUZUKI S; YOSHIDA Y  
PA - (MATU ) MATSUSHITA ELEC IND CO LTD  
- (KURK ) KURITA WATER IND LTD  
- (SAKB ) OTSUKA KAGAKU YAKUHHN KK  
PN - ---JP60248300--- A 19851207 DW198604 005pp  
- JP1048840B B 19891020 DW198946 000pp  
- DE3587280G G 19930527 DW199322 F25B13/00 000pp  
ORD - 1985-12-07  
IC - C02F11/14 ; C08L33/00 ; C09K5/04 ; F25B9/00 ; F25B13/00  
FS - CPI;GMPI  
DC - A14 A97 D15 J07 Q75  
AB - J60248300 To treat excess sludge which generates on treating waste  
water contg. phosphate by the treatment with activated sludge  
consisting of anaerobic and aerobic processes, metal salt is added to  
the sludge and mixed and the hydrazide acrylate high polymer cpd. and  
high polymer cpds. with amino gp. or their quat. salts are added.  
- Hydrazide acrylate high polymer cpds. have formula (I) (where R is H  
or CH<sub>3</sub>; A is monomer unit of acrylamide, methacrylamide acrylate or  
methacrylate; B is acrylic acid, acrylate, methacrylic acid,  
methacrylate or monomer unit which forms copolymer with A; l is 0-100  
mole %; n+m+l = 100 mole %). As B units which can form copolymer with  
A are vinylchloride, vinylacetate, butadiene styrene, acrylonitrile,  
etc. As high polymer cpds., with aminogp. or quat. salt are amino  
alkylacrylate, e.g. dimethylamino ethylacrylate, aminoalkyl  
methacrylate, e.g. dimethyl aminomethacrylate, aminoalkyl acrylamide,  
e.g. dimethylamino propylacrylamide, aminoalkyl methacrylamide, e.g.  
dimethylaminopropyl methacrylamide or their quat. salts. As metal  
salts are pref. used Al or Fe salts, e.g. AlCl<sub>3</sub>, poly aluminium  
chloride, FeSO<sub>4</sub>, Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub>, polyiron sulphate, etc. By addn. of metal  
salt, insoluble AlPO<sub>4</sub> is formed from P which is dissolved in the soln.  
and elution of P is prevented.  
- ADVANTAGE - As large and compact flock of sludge is formed, sludge  
settles easily, dehydration of sludge is good, elution of P from  
sludge is prevented and sepd. water is easily treated. Large mass of  
sludge is treated by the method. (0/0)